

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P953921

Luminaire Tested: **GALN-SB7B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26824 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

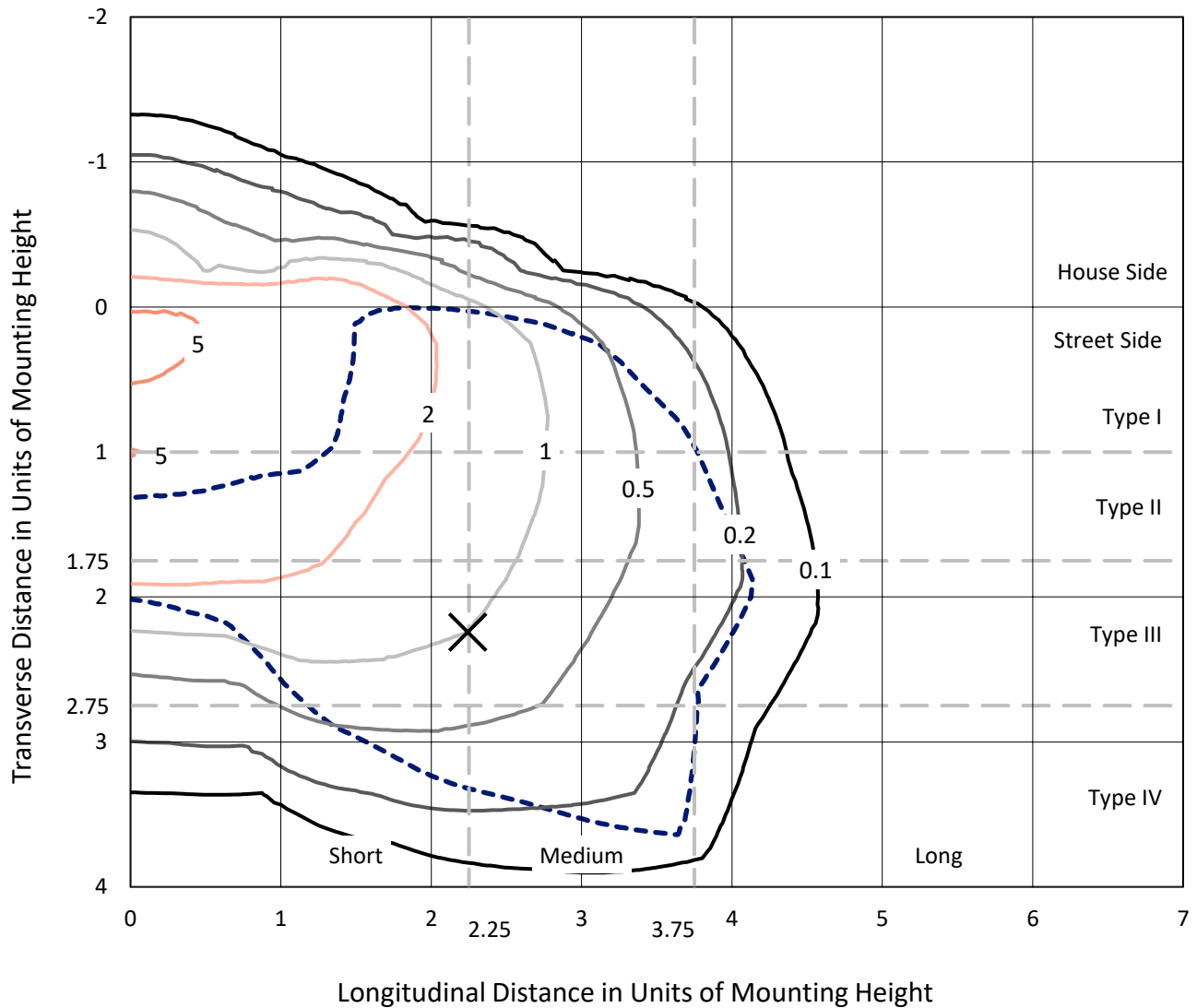
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

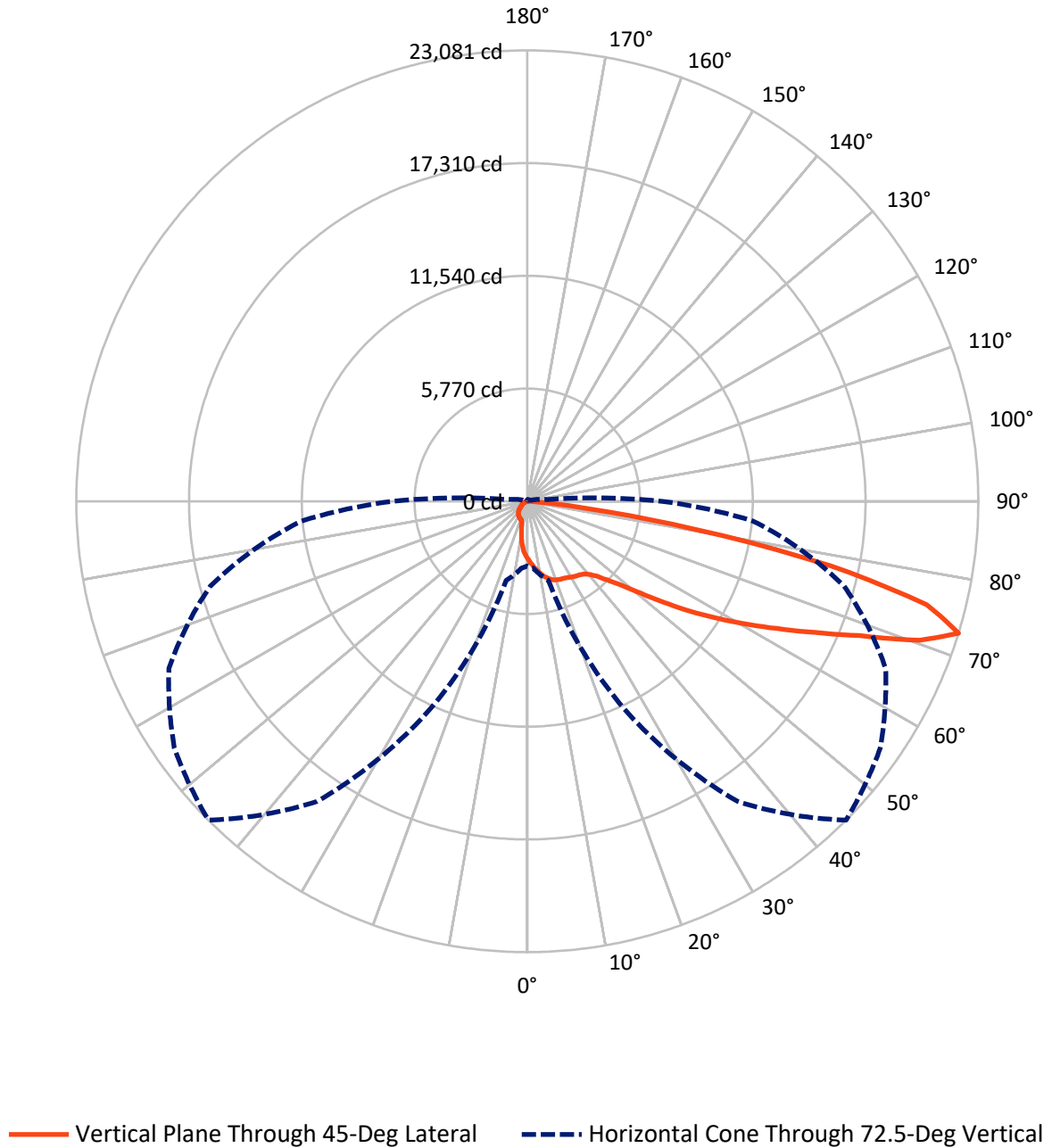
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2818.5	0.0	2818.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24005.5	0.0	24005.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	26824.0	0.0	26824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.9	1.0
10°-20°	809.2	3.0
20°-30°	1328.8	5.0
30°-40°	1884.6	7.0
40°-50°	3115.0	11.6
50°-60°	5595.8	20.9
60°-70°	7770.1	29.0
70°-80°	5636.2	21.0
80°-90°	407.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26824.0	100.0
0°-180°	26824.0	100.0

Coefficient of Utilization



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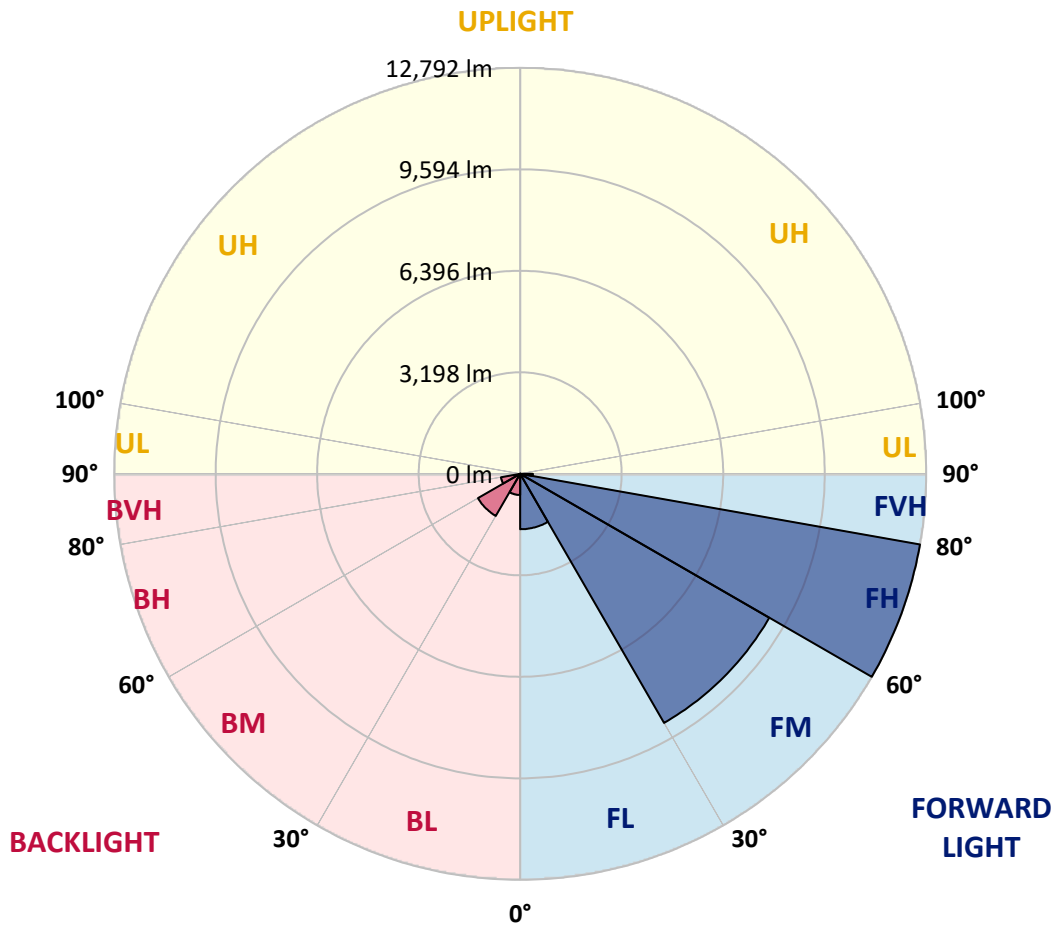
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.3	6.5			
FM (30°-60°)	9062.6	33.8			
FH (60°-80°)	12791.6	47.7			G5
FVH (80°-90°)	404.0	1.5			G3/500
BL (0°-30°)	667.6	2.5	B2/1000		
BM (30°-60°)	1532.8	5.7	B2/2500		
BH (60°-80°)	614.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6
2.5°	3209.6	3215.1	3211.4	3189.5	3152.8	3132.7	3121.7	3085.1	3061.3	3019.2
5°	3504.4	3526.4	3513.5	3469.6	3400.0	3350.6	3335.9	3260.9	3193.1	3114.4
7.5°	3817.5	3828.5	3804.7	3747.9	3654.5	3570.3	3557.5	3453.1	3345.1	3224.2
10°	4088.4	4101.3	4064.6	3982.3	3876.1	3771.7	3753.4	3638.0	3509.9	3361.6
12.5°	4315.5	4328.3	4280.7	4181.8	4064.6	3956.6	3938.3	3817.5	3676.5	3511.7
15°	4487.6	4511.4	4447.3	4341.1	4214.8	4106.8	4097.6	3978.6	3841.3	3658.2
17.5°	4588.3	4612.1	4551.7	4423.5	4315.5	4223.9	4212.9	4114.1	3985.9	3810.1
20°	4604.8	4626.7	4562.7	4451.0	4361.3	4288.0	4282.5	4211.1	4117.7	3949.3
22.5°	4555.3	4582.8	4524.2	4434.5	4372.2	4333.8	4326.5	4286.2	4233.1	4090.3
25°	4504.1	4526.0	4482.1	4403.4	4370.4	4366.7	4372.2	4364.9	4353.9	4233.1
27.5°	4500.4	4524.2	4474.8	4399.7	4381.4	4419.8	4425.3	4460.1	4469.3	4363.1
30°	4531.5	4548.0	4500.4	4421.7	4412.5	4500.4	4502.2	4564.5	4579.1	4472.9
32.5°	4599.3	4617.6	4570.0	4454.6	4441.8	4564.5	4570.0	4652.4	4676.2	4590.1
35°	4758.6	4780.5	4725.6	4546.2	4500.4	4624.9	4641.4	4738.4	4786.0	4714.6
37.5°	5155.9	5091.8	5016.7	4731.1	4634.1	4720.1	4747.6	4861.1	4945.3	4862.9
40°	6142.7	5941.3	5707.0	5046.0	4868.4	4923.3	4945.3	5058.8	5174.2	5093.6
42.5°	7624.0	7385.9	7008.8	5771.1	5221.8	5249.2	5265.7	5364.6	5527.5	5463.5
45°	8944.0	8858.0	8473.5	7008.8	5882.7	5747.3	5767.4	5818.7	6058.5	6034.7
47.5°	9958.4	9908.9	9612.3	8429.6	6999.6	6357.0	6413.7	6437.5	6783.6	6867.8
50°	10738.3	10720.0	10454.6	9692.9	8458.8	7255.9	7276.1	7224.8	7743.0	7951.7
52.5°	11474.4	11536.6	11340.7	10866.5	10017.0	8433.2	8429.6	8187.9	8887.3	9202.2
55°	12139.0	12161.0	12181.1	12063.9	11584.2	9773.4	9738.7	9343.2	10214.7	10540.6
57.5°	12763.3	12772.5	12951.9	13191.8	13215.6	11212.6	11148.5	10674.3	11664.8	11897.3
60°	13182.6	13224.7	13603.7	14270.2	14561.3	12697.4	12662.6	12179.3	13140.5	13248.5
62.5°	12578.4	12834.7	13790.5	15112.4	15832.0	14343.4	14326.9	13872.9	14693.1	14605.2
65°	10181.7	10615.7	12296.5	15681.8	17078.8	16181.7	16205.5	15722.1	16287.9	16002.2
67.5°	7122.3	7580.0	9568.4	15727.6	18472.1	18340.3	18477.6	17719.6	17981.5	17340.6
70°	4925.2	5161.4	6455.8	14742.6	19557.9	21313.7	21310.1	20173.1	19665.9	17950.3
72.5°	3312.1	3434.8	4192.8	11695.9	18759.6	23080.6	22974.4	22047.9	20233.5	16787.7
75°	1397.0	1486.7	1940.8	6573.0	14841.4	21116.0	20828.5	19484.6	17977.8	13219.2
77.5°	443.1	481.5	765.3	2352.7	8175.1	15872.2	15568.3	12168.3	12049.3	6631.6
80°	210.6	245.3	430.3	944.8	3216.9	8632.8	8590.7	5520.2	5183.3	1790.6
82.5°	91.5	108.0	238.0	505.3	1439.1	3079.6	3141.9	1878.5	1554.5	679.3
85°	29.3	38.4	109.9	232.5	607.9	765.3	756.2	446.7	626.2	369.8
87.5°	0.0	0.0	36.6	53.1	62.3	43.9	49.4	38.4	173.9	102.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2938.6	0°	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6
2975.2	2.5°	2953.3	2924.0	2872.7	2825.1	2783.0	2740.9	2715.3	2678.6	2675.0	2675.0
3022.8	5°	2973.4	2925.8	2834.3	2737.2	2625.5	2519.3	2413.2	2310.6	2277.7	2253.9
3099.7	7.5°	3032.0	2956.9	2812.3	2627.4	2415.0	2182.5	2019.5	1843.7	1776.0	1739.4
3202.3	10°	3116.2	3013.7	2794.0	2469.9	2125.7	1808.9	1576.4	1386.0	1312.8	1281.6
3314.0	12.5°	3209.6	3083.3	2761.0	2274.0	1808.9	1429.9	1202.9	1115.0	1104.0	1104.0
3447.6	15°	3321.3	3167.5	2704.3	2043.3	1477.6	1131.5	1050.9	1054.6	1065.6	1072.9
3577.6	17.5°	3436.6	3257.2	2614.6	1785.1	1184.6	1018.0	1019.8	1025.3	1034.5	1041.8
3718.6	20°	3561.1	3346.9	2495.5	1510.5	1016.2	985.0	990.5	996.0	1003.3	1007.0
3850.4	22.5°	3694.8	3431.1	2354.6	1241.4	959.4	957.6	959.4	964.9	974.0	974.0
4004.2	25°	3837.6	3524.5	2193.4	1045.5	930.1	930.1	933.8	937.4	944.8	944.8
4152.5	27.5°	3984.1	3610.6	2023.2	942.9	904.5	902.6	902.6	908.1	911.8	913.6
4299.0	30°	4145.2	3711.3	1852.9	921.0	884.3	875.2	869.7	873.3	877.0	878.8
4452.8	32.5°	4310.0	3808.3	1700.9	930.1	864.2	847.7	829.4	825.7	825.7	833.1
4612.1	35°	4493.1	3914.5	1583.7	961.2	853.2	807.4	778.1	761.7	763.5	774.5
4802.5	37.5°	4712.8	4042.7	1497.7	988.7	845.9	761.7	714.1	693.9	681.1	693.9
5064.3	40°	5000.2	4231.3	1435.4	1010.7	836.7	708.6	644.5	611.5	587.7	595.0
5470.8	42.5°	5423.2	4527.9	1411.6	1012.5	816.6	646.3	573.1	529.1	494.3	496.2
6082.3	45°	6016.4	4996.6	1534.3	988.7	772.6	578.6	498.0	439.4	417.4	412.0
6995.9	47.5°	6829.3	5679.5	1818.1	939.3	708.6	512.7	424.8	375.3	358.9	349.7
8195.2	50°	7918.7	6556.5	2133.0	884.3	644.5	450.4	364.4	333.2	322.2	313.1
9617.8	52.5°	9182.1	7446.4	2391.2	829.4	580.4	395.5	325.9	307.6	298.4	291.1
10991.0	55°	10341.0	8059.7	2376.5	770.8	518.2	351.5	298.4	287.5	276.5	269.1
12173.8	57.5°	11062.4	8145.8	1959.1	706.7	446.7	316.7	272.8	265.5	252.7	243.5
13197.3	60°	11393.8	7655.1	1373.2	622.5	375.3	283.8	245.3	241.7	225.2	212.4
14165.8	62.5°	11454.2	6743.3	915.5	518.2	313.1	252.7	217.9	212.4	190.4	168.4
14953.1	65°	11208.9	5439.7	633.5	404.6	267.3	219.7	186.8	175.8	152.0	130.0
15139.9	67.5°	10432.6	3819.3	441.3	291.1	227.0	173.9	148.3	144.6	126.3	108.0
14187.8	70°	9010.0	2177.0	294.8	217.9	179.4	119.0	117.2	120.8	102.5	87.9
11591.6	72.5°	6908.1	996.0	183.1	159.3	122.7	80.6	93.4	95.2	78.7	65.9
7232.1	75°	4066.5	426.6	115.3	102.5	62.3	53.1	67.7	69.6	53.1	42.1
2643.8	77.5°	1384.2	161.1	73.2	60.4	31.1	29.3	43.9	43.9	29.3	16.5
531.0	80°	314.9	60.4	36.6	23.8	14.6	12.8	14.6	12.8	7.3	1.8
163.0	82.5°	89.7	23.8	14.6	9.2	5.5	5.5	1.8	0.0	0.0	0.0
56.8	85°	25.6	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
20.1	87.5°	11.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
2938.6
2684.1
2264.8
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1281.6
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1072.9
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1008.8
977.7
946.6
915.5
882.5
838.6
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